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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 2

## Complete if Known

|                        |                   |
|------------------------|-------------------|
| Application Number     | 10/001,644        |
| Filing Date            | November 29, 2001 |
| First Named Inventor   | Li-wen Chen       |
| Group Art Unit         | 2163              |
| Examiner Name          | unassigned        |
| Attorney Docket Number | 52719.00033       |

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## U.S. PATENT DOCUMENTS

| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Document Number                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of<br>Cited Document | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant<br>Figures Appear |
|------------------------|--------------------------|--|--------------------------------|--|---|
|                        |                          | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
| pm                     | A                        | US-4,972,504                               | 11/20/1990                     | James N., Daniel Jr. et al.                        |   |
|                        | B                        | US- 5,036,314                              | 07/30/1991                     | Piero Barillari et al.                             |   |
|                        | C                        | US- 5,168,445                              | 12/01/1992                     | Kazuhiro Kawashima et al.                          |   |
|                        | D                        | US- 5,191,522                              | 03/02/1993                     | James J. Bosco et al.                              |   |
|                        | E                        | US- 5,299,115                              | 03/29/1994                     | Randall K. Fields et al.                           |   |
|                        | F                        | US- 5,615,109                              | 03/25/1997                     | Jeff Eder  |   |
|                        | G                        | US- 5,715,450                              | 02/03/1998                     | Jesse Lee Ambrose et al.                           |   |
|                        | H                        | US- 5,721,903                              | 02/24/1998                     | Tejwansh S. Anand et al.                           |   |
|                        | I                        | US- 5,758,355                              | 05/26/1998                     | David D. Buchanan                                  |   |
|                        | J                        | US- 5,787,437                              | 07/28/1998                     | Robert A. Potterveld et al.                        |   |
|                        | K                        | US- 5,794,246                              | 08/11/1998                     | Mohan Sankaran et al.                              |   |
|                        | L                        | US- 5,854,746                              | 12/29/1998                     | Tsukasa Yamamoto et al.                            |   |
|                        | M                        | US- 5,870,746                              | 02/09/1999                     | James F. Knutson et al.                            |   |
|                        | N                        | US- 5,873,096                              | 02/16/1999                     | Peter S. Lim et al.                                |   |
|                        | O                        | US- 5,893,075                              | 04/06/1999                     | Richard M. Plainfield et al.                       |   |
|                        | P                        | US- 6,044,374                              | 03/28/2000                     | Diaz Nesamoney et al.                              |   |
|                        | Q                        | US- 6,064,375                              | 05/16/2000                     | Arthur Silvio Velez et al.                         |   |
|                        | R                        | US- 6,151,601                              | 11/21/2000                     | Karen A. Papierniak et al.                         |   |
|                        |                          | US-  |                                |  |   |
|                        |                          | US-  |                                |  |   |

## FOREIGN PATENT DOCUMENTS

| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Foreign Patent Document   | Publication<br>Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited<br>Document | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear | T <sup>6</sup> |
|------------------------|--------------------------|---|-----------------------------------|---|--|----------------|
|                        |                          | Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known) |                                   |   |  |                |
| pm                     | S                        | PCT - WO 00/57311   | 09/28/00                          | Quansoo Group   |  |                |
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<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 2 of 2

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|                        |                    |
|------------------------|--------------------|
| Application Number     | 09/963,062         |
| Filing Date            | September 24, 2001 |
| First Named Inventor   | Li-wen Chen        |
| Group Art Unit         | 2167               |
| Examiner Name          | unassigned         |
| Attorney Docket Number | 52719.00028        |

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Technology Center 2100**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials * | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|---------------------|-----------------------|---|----------------|
| DM                  | T                     | RONALD J. BRACHMAN, et al., Mining Business Databases, Communications of the ACM, Vol. 39, No. 11, November 1996  |                |
|                     | U                     | PETER BROOKS, March of the Data Marts, DBMS, Vol. 10, no. 3, March 1997 (printed from www.dialogweb.com)  |                |
|                     | V                     | MICHAEL KRIPPENDORF and IL-YEOL SONG, The Translation of Star Schema into Entity-Relationship Diagrams, IEEE, 1997, pp. 390-395   |                |
|                     | W                     | JOSEPH M. FIRESTONE, Object-Oriented Data Warehousing, Executive Information Systems, Inc., White Paper No. Five, August 7, 1997  |                |
|                     | X                     | JOE GREENE and ADVANCED INFORMATION SYSTEMS, INC., Oracle8 Server Unleashed, Chapter 30 - Data Warehouses, 1998, Sams Publishing (printed from www.books24x7.com)   |                |
| DM                  | Y                     | VIVEKANAND GOPALKRISHNAN et al., Star/Snowflake Schema Driven Object-Relational Data Warehouse Design and Query Processing Strategies, Lecture Notes in Computer Science, no. 1676, pp. 11-22, Springer-Verlag, 1999  |                |
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